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Abstract

The invention relates to an electric motor for a linear drive system comprising a motor housing within which a stator, a rotor and a threaded shank are accommodated. The stator has a stator core and phase windings which are connected to phase connectors. The rotor is mounted onto a rotor hub, the rotor hub being supported in the motor housing by roller bearings and coupled to the threaded shank via a thread in order to transform the rotation of the rotor into a translational motion of the threaded shaft. In accordance with a first aspect of the invention, the motor housing has an injection molded part within which the stator, together with the stator core and phase windings, is embedded. A linear guide to accommodate and guide the threaded shank is integrated into the injection molded part of the motor housing. In accordance with a second aspect of the invention, the rotor hub is also formed from an injection molded part within which the rotor is fixed, the injection molded part of the rotor hub having an inner thread which interacts with the outer thread of the threaded shank.